



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

# SCIENCE

EDITORIAL COMMITTEE: S. NEWCOMB, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING, Astronomy; T. C. MENDENHALL, Physics; R. H. THURSTON, Engineering; IRA REMSEN, Chemistry; J. LE CONTE, Geology; W. M. DAVIS, Physiography; O. C. MARSH, Paleontology; W. K. BROOKS, C. HART MERRIAM, Zoölogy; S. H. SCUDDER, Entomology; N. L. BRITTON, Botany; HENRY F. OSBORN, General Biology; H. P. BOWDITCH, Physiology; J. S. BILLINGS, Hygiene; J. McKEEN CATTELL, Psychology; DANIEL G. BRINTON, J. W. POWELL, Anthropology; G. BROWN GOODE, Scientific Organization.

FRIDAY, MAY 22, 1896.

## CONTENTS:

<i>A Successful Trial of the Aerodrome</i> : S. P. LANGLEY, A. GRAHAM BELL	753
<i>The Development of Exogenous Structure in the Paleozoic Lycopods—A Summary of the Researches of Williamson and Renault</i> : DAVID WHITE	754
<i>The Embankments of the River Poe</i> : FRANK D. ADAMS	759
<i>Measuring Hallucinations</i> : E. W. SCRIPTURE	762
<i>Habits of Phrynosoma</i>	763
<i>Lord Kelvin on the Metric System</i>	765
<i>Notes on Agriculture and Horticulture</i> :- <i>The Prevention of Smut in Oats; Bacteriosis of Carnations</i> : BYRON D. HALSTED	767
<i>Current Notes on Anthropology</i> :- <i>Race and Disease; Buddha-like Figures in America and Elsewhere</i> : D. G. BRINTON	767
<i>Current Notes on Meteorology</i> :- <i>Hurricanes in Jamaica; The Climate of Venezuela; A Quick Voyage across the Pacific; A Tornado in New Jersey</i> : R. DE C. WARD	768
<i>Scientific Notes and News</i> :- <i>Annual Report of the Geological Survey; Fish Culture; Recent Chemical Progress; The Marine Biological Laboratory; The Zoölogical Society of London; General</i>	770
<i>University and Educational News</i>	776
<i>Discussion and Correspondence</i> :- <i>The Significance of Anomalies</i> : THOMAS DWIGHT. <i>'Progress in American Ornithology, 1886-'95'</i> : J. A. ALLEN. <i>'What is Truth?'</i> W. K. BROOKS. <i>Three Subcutaneous Glandular Areas of Blarina Brevicauda</i> : ELLIOTT COUES. <i>Instinct</i> : WESLEY MILLS. <i>Notes on the Perception of Distance</i> : H. M. STANLEY. <i>The Mammoth Bed at Morea, Pa.</i> : E. H. WILLIAMS, JR. <i>A Meteor</i> : T. L. CASEY. <i>X-Ray Photography by Means of the Camera, The Rotating Cathode</i> : F. E. NIPHER	776
<i>Scientific Literature</i> :- <i>Goode's Principles of Museum Administration</i> : W. N. RICE. <i>Landauer's Spectrum Analysis</i> : C. E. M.	783
<i>Scientific Journals</i> :- <i>The Journal of Geology</i>	785

## Societies and Academies:-

<i>Geological Conference of Harvard University</i> : T. A. JAGGAR, JR.	
<i>New York Academy of Sciences, Section of Astronomy and Physics</i> : W. HALLOCK	
<i>Academy of Natural Sciences of Philadelphia</i> : EDW. J. NOLAN.	
<i>Northwestern University Science Club</i> : A. R. CROOK	786
<i>New Books</i>	788

MSS. intended for publication and books etc., intended for review should be sent to the responsible editor, Prof. J. McKeen Cattell, Garrison-on-Hudson, N. Y.

## A SUCCESSFUL TRIAL OF THE AERODROME.

THE editor of SCIENCE has received the following letters containing an announcement of great scientific and practical importance:

THE EDITOR OF SCIENCE—*Dear Sir*: After having published some investigations in aerodynamics ('Experiments in Aerodynamics' and 'The Internal Work of the Wind'), I have made further experiments on the practical application of these conclusions, in the construction of an actual aerodrome or flying machine, upon a scale sufficient to admit of the employment of a steam engine of between one and two-horse power. I have never given any account of these experiments, as I have wished first to attain such a complete control of the flight as would insure its being automatically directed in a horizontal course, in any desired azimuth; but in view of the demands upon my time, which render it uncertain how far I can continue my personal attention to the completion of this object, I have yielded to the request of my